

CLAIMS:

1. A plasma display panel equipped with a front plate (1) which has a glass plate (3) on which a dielectric layer (4) and a protective layer (5) are deposited, with a carrier plate (2) covered by a segmented fluorescent layer (9) which contains red-emitting color segments of a red-emitting fluorescent substance, blue-emitting color segments of a blue-emitting fluorescent substance and green-emitting color segments of a green-emitting Tb^{3+} -activated fluorescent substance, has a rib structure (12) which divides the space between front plate (1) and carrier plate (2) into plasma cells which are gas-filled, with one or more electrode arrays (6, 7, 10) on the front plate (1) and the carrier plate (2) for generating silent electrical discharges in the plasma cells and has a green color filter layer (14) between the fluorescent layer (9) of a green-emitting color segment and the carrier plate (2).
2. A plasma display panel as claimed in claim 1, characterized in that the green color filter layer (14) contains Pr^{3+} -containing materials.
3. A plasma display panel as claimed in claim 2, characterized in that Pr^{3+} -containing materials are selected from the group $PrPO_4$, $[Pr(PO_3)_3]_n$, PrF_3 , $PrOCl$, $PrOF$, $PrOBr$, $Pr_3Al_5O_{12}$, $PrBO_3$, Pr_2SiO_5 , $Pr_2Si_2O_7$ and PrB_3O_6 .
4. A plasma display panel as claimed in claim 1, characterized in that the green Tb^{3+} -activated fluorescent substance is selected from the group $(Y_xGd_{1-x-y})BO_3:Tb_y$ ($0 \leq x \leq 1$, $0 \leq y \leq 1$), $LaPO_4:Tb$, $(Y_xGd_{1-x-y})_3Al_5O_{12}:Tb_y$ ($0 \leq x \leq 1$, $0 \leq y \leq 1$), $CeMgAl_{11}O_{19}:Tb$, $GdMgB_5O_{10}:Ce,Tb$, $(Y_xGd_{1-x-y})_2SiO_5:Tb_y$ ($0 \leq x \leq 1$, $0 \leq y \leq 1$), $(In_xGd_{1-x-y})BO_3:Tb_y$ ($0 \leq x \leq 1$, $0 \leq y \leq 1$), $(Y_{1-x-y}Gd_x)_2O_2S:Tb_y$ ($0 \leq x \leq 1$, $0 \leq y \leq 1$), $LaOBr:Tb$, $LaOCl:Tb$ and $LaPO_4:Ce,Tb$.